VeriRadio User Manual

VeriRadio Overview

The VeriSolutions VeriRadio is a low power 2.4 GHz radio module that can be installed standalone inside a product chassis or installed on a host. When installed in a standalone manner, all that is required for the module to operate is power.

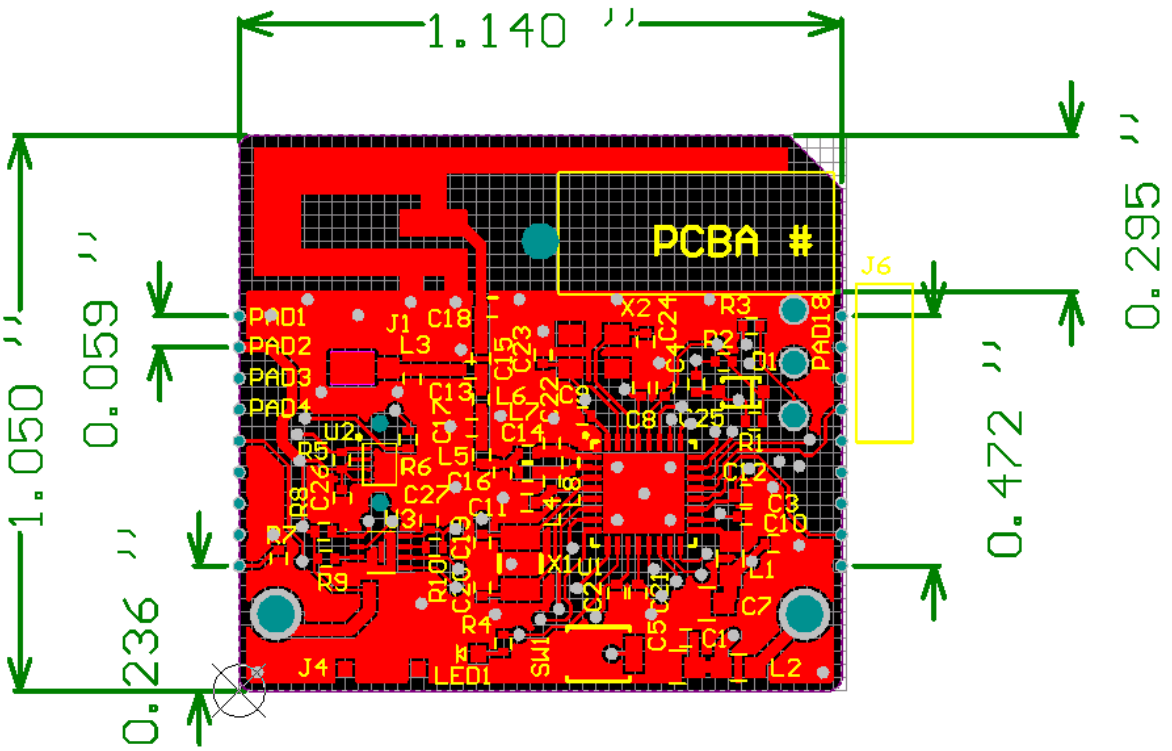
The system shall be capable of being powered from one of three potential interfaces. A two pin Molex 78171-0002 connector shall be provided as one of these interfaces. A coin cell battery holder for a 2477 shall be another interface. The third interface shall be over the module's interface connections.

Parameter	Min	Typical	Max	Units	Notes
Voltage	2.7	-	3.6	V	From VSYS to GND

Module Interface Connections

Pad #	Name	Description
1	GND	Module ground
2	VSYS	Module power
3	JTAG_TMS	JTAG_TMS signal
4	JTAG_TCK	JTAG_TCK signal
5	nRESET	Module reset
6	JTAG_TDO	JTAG_TDO signal
7	JTAG_TDI	JTAG_TDI signal
8	LED	LED control pin
9	BL_PIN	Bootloader mode pin
10	DIO_14	IO14 from MCU
11	DIO_7	IO7 from MCU
12	SCL	I2C clock
13	SDA	I2C data
14	MOSI	SPI data output
15	MISO	SPI data input
16	UART_RX	UART Rx pin
17	UART_TX	UART Tx pin
18	GND	Module ground

VeriRadio Mechanical Specifications



This is a limited modular approved radio; the Grant holder is responsible for compliance of the module in its final configuration

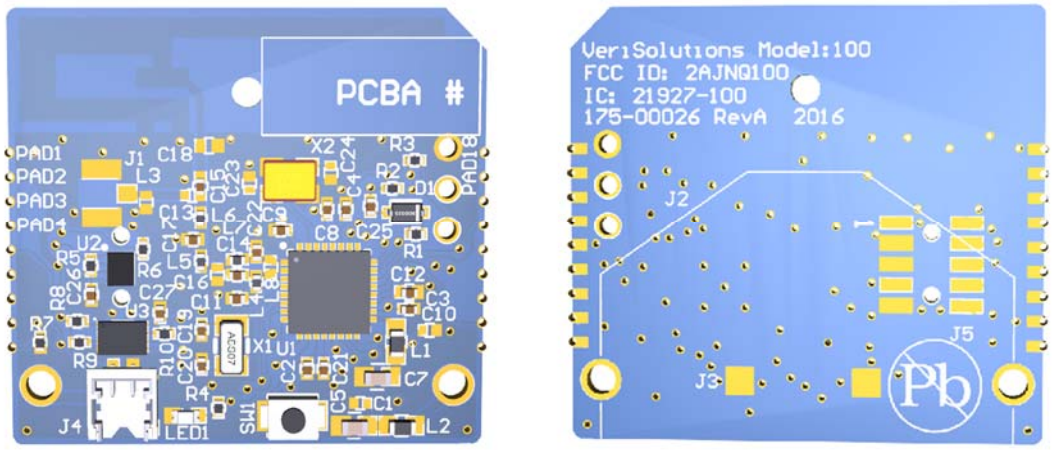
This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by VeriSolutions LLC could void the user's authority to operate the equipment.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter except for co-location operation with FCCID: XPYSARAU260, IC: 8595A-SARAU260.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



Final Product Marking

Any product that integrates the VeriRadio Model 100 must mark the product according, clearly showing that it contains this transmitter module, including the appropriate FC and IC approval numbers. This marking must be visible on the outside of the final end product.

Contains FCC ID: 2AJNQ100

Contains IC:21927-100

Final Product Documentation

The final product must contain a user manual that contains the required language as follows:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful

interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.